

TOPIC 6: **The Watershed** **Energy Sustainability** **Public Safety and Hazards Resiliency** **Opportunity & Health for All**

Bill No. 2666 – General Plan Update

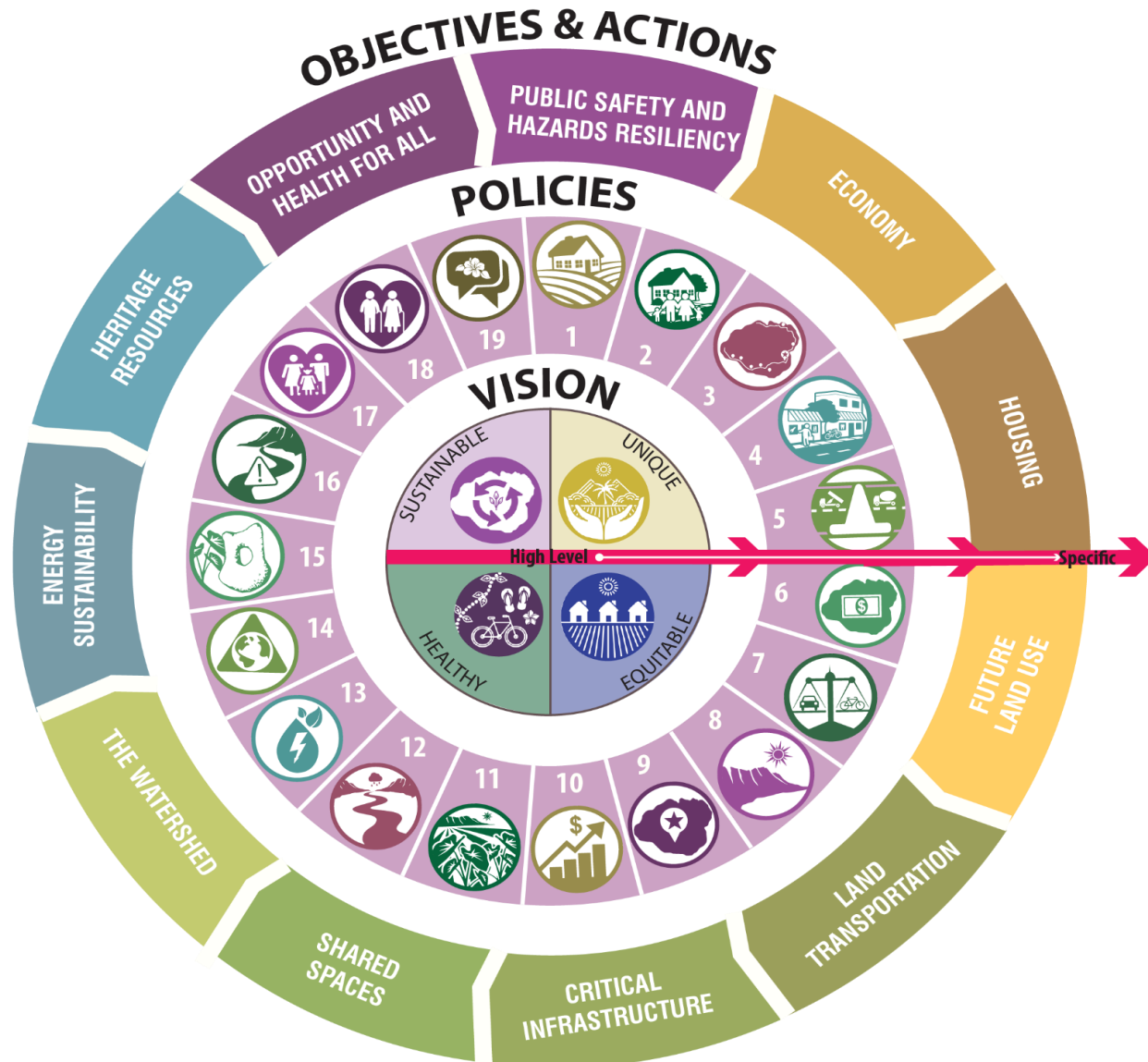
Michael Dahilig | Marie Williams | Ruby Pap

Planning Department & UH Sea Grant Program

County Council- Planning Committee Meeting

November 29, 2017

General Plan Framework



Sector I. The Watershed

THE UPPER WATERSHED
MIDDLE WATERSHED, DRAINAGE,
and FRESHWATER RESOURCES
COASTAL AREAS AND SHORELINES
THREATENED AND ENDANGERED SPECIES

Public Input → Policies → Objectives

Our beaches are unique... we want to preserve them.

Protect and effectively manage Kauai's natural resources.



Near shore resources such as reefs should be addressed in the General Plan.



UPPER WATERSHED

To conserve the upper watershed and restore native habitat and forested areas.

MIDDLE WATERSHED, DRAINAGE, FRESHWATER

- 1) To protect, restore, and enhance freshwater resources to support aquatic, environmental, and cultural resources.
- 2) To recognize and mitigate impacts from the built environment to the mid-watershed area.

COASTAL AREAS AND SHORELINES

To protect and enhance coastal resources and public access to the shoreline.

THREATENED & ENDANGERED/INVASIVE SPECIES

To protect the flora and fauna unique to Kaua'i and Hawai'i and to mitigate the impact of invasive species.

Actions – The Watershed

Implementation Tool	Selected Implementing Actions in the General Plan (Pgs. 99 - 111)
Permitting and Code Change	<ul style="list-style-type: none">• Review DLNR Forest Reserve Plans• Minimize the risk of coastal hazards• Minimize coastal resource impacts• Avoid development and land use intensification on critical habitats
Plans and Studies	<ul style="list-style-type: none">• Utilize DNLR Forest and Natural Area Reserve Plans in community planning processes• Encourage other communities to adopt community watershed management plans, such as the Hanalei Watershed Action Plan
Projects and Programs	<ul style="list-style-type: none">• Restore and protect last endemic forests and landscapes• Minimize the feral cat population.
Partnership Needs	<ul style="list-style-type: none">• Support State's goal of doubling the amount of protected and managed watershed areas• Complete and implement native species Habitat Conservation Plans



Sector VIII. Energy Sustainability

ENERGY SUSTAINABILITY

REDUCTION OF GREENHOUSE GAS EMISSIONS

Public Input → Policies → Objectives



Complete
Kaua'i's Shift to
Clean Energy



Prepare for
Climate Change

ENERGY SUSTAINABILITY

To increase energy self-sufficiency and maintain a reliable, resilient, and cost-efficient energy system.

REDUCTION OF GREENHOUSE GAS EMISSIONS

To acknowledge the human contribution to global warming and reduce Kaua'i's greenhouse gases.

Actions - Energy Sustainability

Implementation Tool	Selected Implementing Actions in the General Plan (Pgs. 179 – 186)
Permitting Action and Code Change	<ul style="list-style-type: none">• Streamline and expedite permitting processes involving renewable energy facilities• Promote higher density development near jobs centers and amenities
Plans and Studies	<ul style="list-style-type: none">• Develop a climate plan• Conduct a greenhouse gas emissions inventory
Projects and Programs	<ul style="list-style-type: none">• Install more solar facilities on County facilities• Support a methane and biogas capture and containment project at the Kekaha Landfill
Partnership Needs	<ul style="list-style-type: none">• Monitor the amount of Kaua'i's energy production that is from fuel produced on island

An aerial photograph of a tropical beach with a purple text box overlay. The beach is sandy and bordered by lush green trees and vegetation. The ocean is visible in the foreground, showing some coral reef structures. The text box is a solid purple rectangle with a white border, containing white text.

Sector IX. Public Safety and Hazards Resiliency

POLICE, FIRE, OCEAN SAFETY, AND EMERGENCY

HAZARDS RESILIENCY

GLOBAL WARMING &
CLIMATE CHANGE ADAPTATION

Public Input → Policies → Objectives

I think the biggest single issue facing our Island today is Climate Change and rising sea levels.



FIRE, OCEAN SAFETY, AND EMERGENCY SERVICES

To ensure adequate coverage of public safety and emergency services as Kauaʻi grows.

HAZARDS RESILIENCY

To ensure that Kauaʻi is resilient to natural disasters and other emergencies.

GLOBAL WARMING AND CLIMATE CHANGE ADAPTATION

To prepare for and adapt to the impacts of climate change on the natural and built environments.

Actions – Hazards Resiliency

Implementation Tool	Selected Implementing Actions in the General Plan (Pgs. 187 - 195)
Permitting Action and Code Change	<ul style="list-style-type: none">• Upgrade and enhance facilities to address existing vulnerabilities and support necessary growth in emergency response personnel• Minimize coastal development in areas of high risk of erosion, flooding, tsunami inundation and sea level rise• Use the best available climate and hazard science
Plans and Studies	<ul style="list-style-type: none">• Conduct hazard, risk, and vulnerability assessments for critical infrastructure and low-lying coastal communities• Support implementation of the Hawai'i Climate Adaptation Initiative
Projects and Programs	<ul style="list-style-type: none">• Upgrade bridges in key areas to ensure emergency vehicles can service all residents and visitors• Consider multiple SLR scenarios in capital planning
Partnership Needs	<ul style="list-style-type: none">• Support the State and County's coordinated response system to wildfires• Designate evacuation routes, critical facility access routes, and public shelters



Sector X. Health and Opportunity for All

SOCIAL EQUITY

ACCESS TO QUALITY EDUCATION & TRAINING

COMMUNITY HEALTH

ACCESS TO RECREATION & SUBSISTENCE ACTIVITY

Public Input → Policies → Objectives



SOCIAL EQUITY

To recognize and address inequities in health and well-being among Kaua'i's diverse ethnic, racial, and income groups.

ACCESS TO QUALITY EDUCATION & TRAINING

To support educational programs that foster cultural knowledge, employability, and civic participation of local residents.

COMMUNITY HEALTH

To improve community health through a "Health in All Policies" approach.

ACCESS TO RECREATION AND SUBSISTENCE ACTIVITIES

To activity protect, restore, and increase access to the places where recreational and subsistence activity occurs.

Actions – Opportunity and Health

Implementation Tool	Implementing Actions in the General Plan (Pgs. 196 - 209)
Permitting Action and Code Change	<ul style="list-style-type: none">• Mitigate impact to Native Hawaiian traditional and customary practices and the resources they rely upon• Support family childcare homes, preschools, and charter schools.• Protect and preserve mauka and makai access for traditional Hawaiian cultural practices
Plans and Studies	<ul style="list-style-type: none">• Include community health concerns in community planning• Implement and update the Kaua'i Plan on Aging• Implement and update the Kaua'i Community Health Improvement Initiative
Projects and Programs	<ul style="list-style-type: none">• Leverage infrastructure investments to bring jobs and housing opportunities to underserved communities• Prioritize safety improvements around and adjacent to schools
Partnership Needs	<ul style="list-style-type: none">• Foster racially and economically integrated neighborhoods• Support pilot programs for community gardens and nutrition education• Anticipate and plan for the health impacts of climate change